

A white egret is captured in mid-flight, its wings spread wide, against a background of lush green marsh vegetation. The bird is positioned on the left side of the frame, facing right.

# Reviving

THE *river* OF *grass*

## Phase II Planning Approach

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# Phase II Planning Objective

RESTORATION PLANNING



- **Identify the land needed to deliver desired quality, quantity and timing**
  - **Carryover storage to replace missing natural buffering:**
    - Wet to dry season
    - Multi-year drought
  - **Treatment needed for increased wet period flows south from Lake**

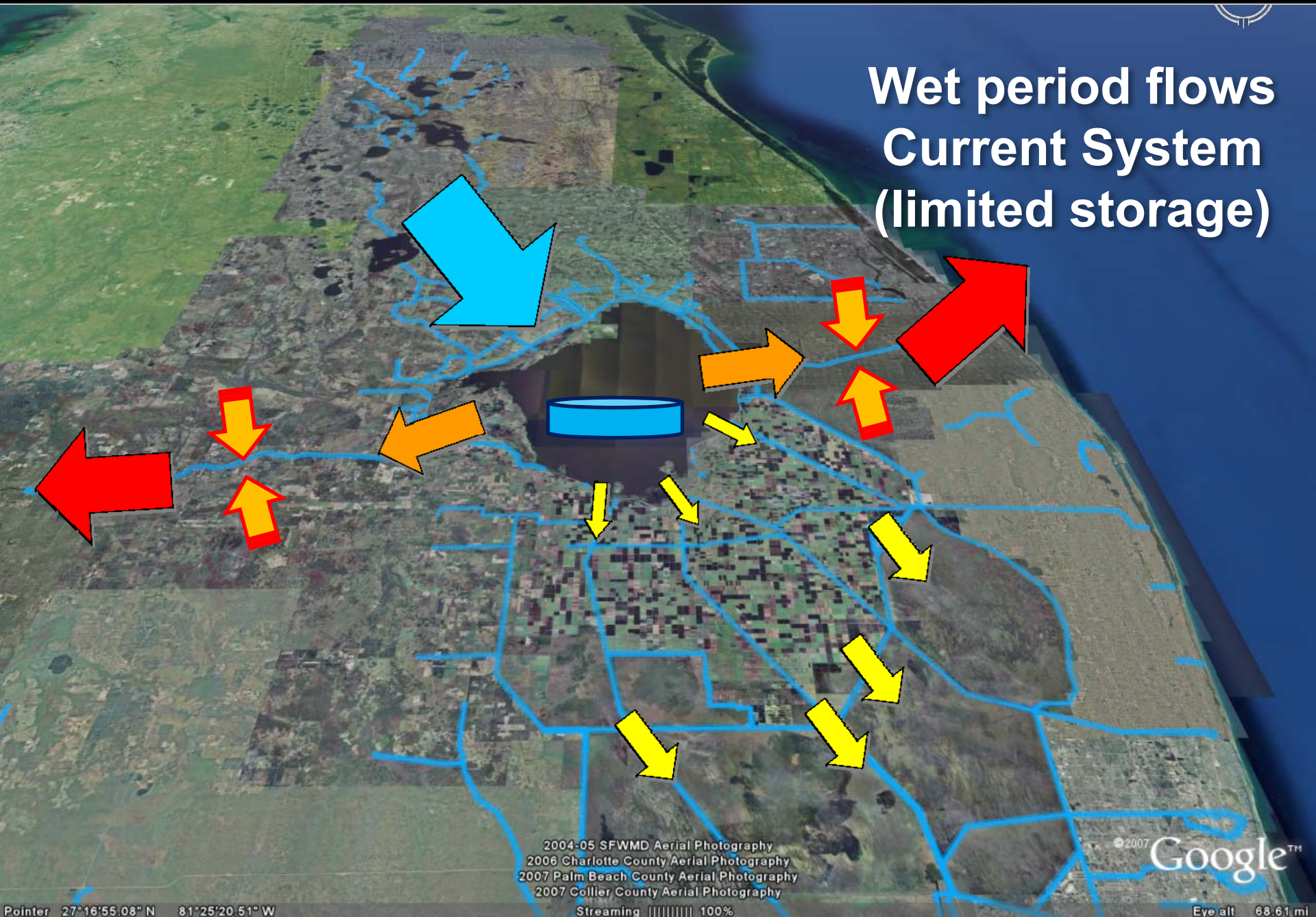
# Phase I and Science Workshops

RESTORATION PLANNING

- Consensus achieved on range of operational flow targets needed for Everglades and Florida Bay
- Range similar to non-beneficial volumes discharged to northern estuaries
- Existing STAs and Compartments B & C not capable of treating significant increased southward flows from Lake Okeechobee
- Need land in EAA to store, treat and convey increased flows

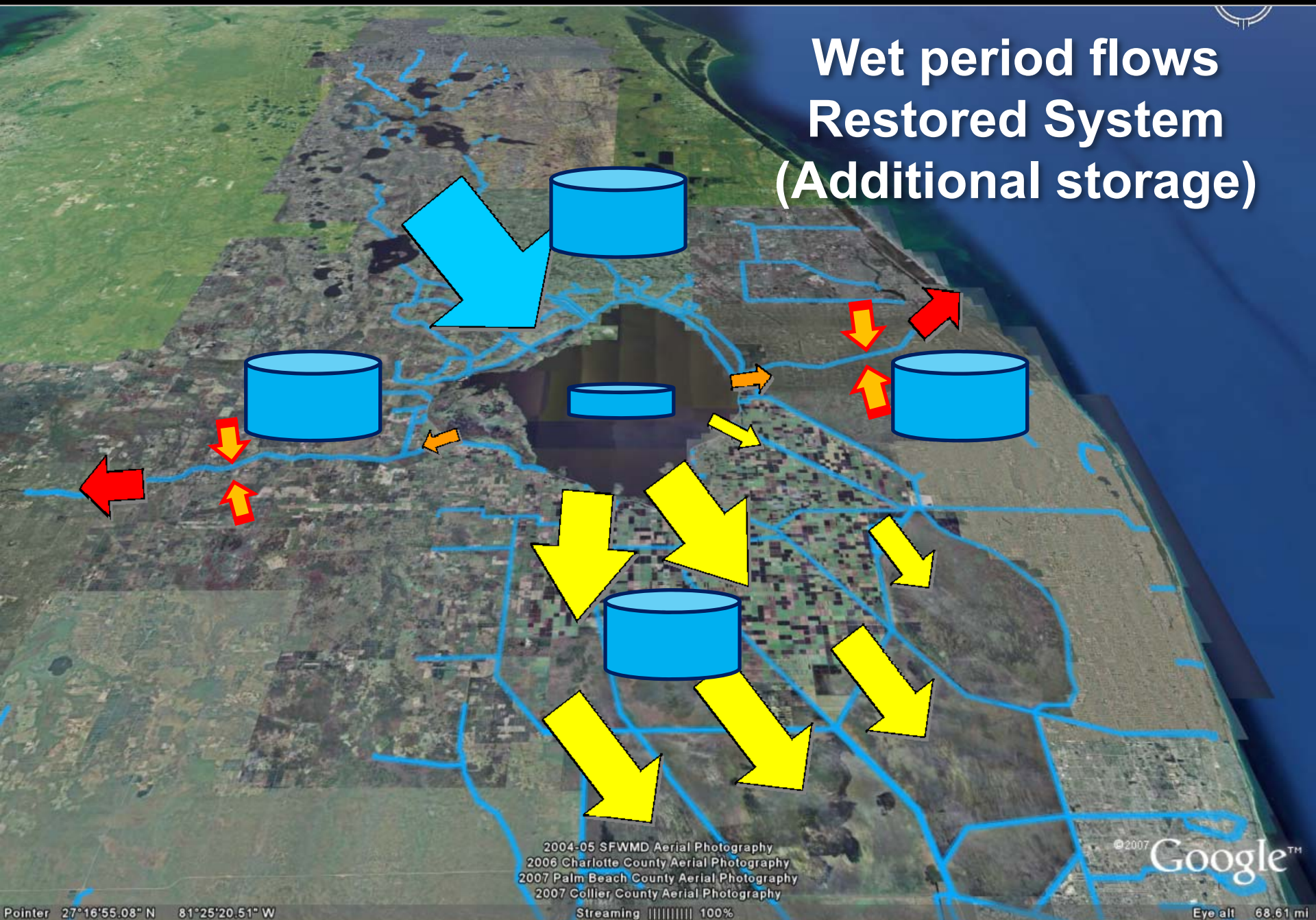


Wet period flows  
Current System  
(limited storage)





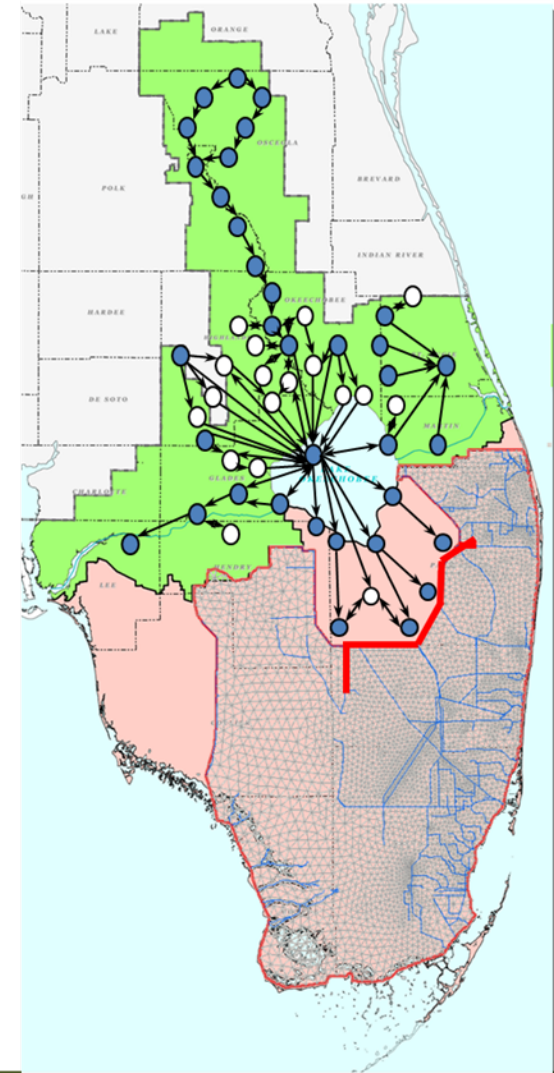
# Wet period flows Restored System (Additional storage)



# Phase II Planning Focus & Process

## RESTORATION PLANNING

- **Focus on EAA configurations and Red Line flows**
- **Process:**
  - **Initially identify a range of potential infrastructure configurations, costs, and performance levels**
  - **Compare, contrast, optimize**
  - **Identify most viable 2 - 4 configurations (with and without potential land swaps)**
  - **Identify first increment for design and construction**





# Rounds 1, 2, and 3 Evaluations

RESTORATION PLANNING

- **Round 1 – Identify initial configurations, evaluate cost and performance**
- **Round 2 – Optimize Round 1 configurations, identify short list of most viable configurations**
- **Round 3 – Further evaluate hydrologic performance of short listed configurations with simple downstream infrastructure assumptions, hydroperiods and transect flows**

# Evaluation Considerations

RESTORATION PLANNING

- **Rounds 1 and 2**
  - **Red Line flow volumes and timing along with qualitative narrative assessments for Everglades and Florida Bay**
  - **Water Quality Performance: DMSTA2 with assumed Lake Okeechobee outflow P concentrations and target P concentrations to Everglades**
  - **Lake Okeechobee, Northern Estuaries, and LOSA (Phase I performance measures with improved RSM Basin model output)**



# Evaluation Considerations

RESTORATION PLANNING

## ■ Round 3

- **Further evaluate short-list of configurations**
  - Red Line flow volumes and timing
  - Water Quality Performance
  - Lake Okeechobee, Northern Estuaries, and LOSA
  - Add downstream Everview windows, simplified downstream feature assumptions, transect flows
- **Identify first increment for design and construction**

# Phase II River of Grass Constraints

RESTORATION PLANNING

- **Water Quality**
- **Real Estate:  $\leq 180,000$  acres**
- **Consistent with CERP**
- **Does not define detailed downstream projects or infrastructure**
- **Redirect only non-beneficial flows away from northern estuaries**
- **Avoid adverse impacts to existing legal users in LOSA**





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Questions?

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RESTORATION PLANNING